

# Francis M. Seely

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❖ Web Portfolio: <https://seelyfrank.github.io/webportfolio/> ❖

## EDUCATION

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**Boston University, College of Computing and Data Sciences**

**Boston, MA**

*Bachelor of Science in Data Science; Minor in Computer Science*

**Expected May 2026**

- 3.96 Major GPA | 3.70 Overall GPA
- Relevant coursework: Programming for Data Science, Data Structures and Algorithms, Linear Algebra, Database Systems, Introduction to Natural Language Processing

## SKILLS

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**Technical:** Python (NumPy, Matplotlib, Pandas, sci-kit learn), Java, Rust, SQL

**Tech Stack:** Git, Jupyter Notebook, VSCode, Google Sheets, Excel

**Individual:** Communication, problem-solving, time management, collaboration, presentation

## PROJECTS

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**Fraud Detection Analysis**

**Dec 2024**

- Conducted an exploratory data analysis to determine that the optimal way to preprocess the transaction data was through sci-kit learn's Robust Scaler.
- Used logistic regression and the random forest algorithm for binary classification of fraudulent transactions and tuned parameters to maximize F1 scores to about 0.92

**Degree of Separation Simulator**

**May 2024**

- Developed a graph analysis tool to read various graph datasets, directed and undirected, and compute shortest paths using BFS (Breadth-First-Search).
- Used Stanford's extensive datasets, like email-Eu-core and epinions, to emulate real-world scenarios and confirm the connectivity of graph vertices.
- Employed Rust's performance benefits to handle large-scale graph data efficiently.

**Airport Flight Delay Exploratory Data Analysis**

**Nov 2023**

- Utilized Python to explore and model a flight log dataset to determine which factors contribute to the highest chance of a flight delay.
- Discovered that flying Southwest Airlines in the evening leads to the highest chance of having a flight delay through EDA.

## EXTRACURRICULAR EXPERIENCE

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**BU CDS Toastmasters Club**

**May 2024**

- International nonprofit organization that promotes public speaking skills by hosting biweekly meetings where members give personal and professional speeches—both prepared and impromptu.

## AWARDS

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**Winner of the College of General Studies Capstone Paper**

**October 2024**

- Collaborated with six peers to create a 62-page policy proposal for harm reduction efforts in Newark, New Jersey, and gave a two-hour oral defense before three judges.

**Dean's List** | 4 terms